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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
AFTERCATION NO.	FIEING DATE	TRST NAMED INVENTOR	ATTORNET BOCKET NO.	CONFIRMATION NO:
10/750,602	12/29/2003	Seong-Hoon Lee	51876P543	1601
****	7590 12/19/2000 KOLOFF TAYLOR &	EXAMINER		
12400 WILSHI SEVENTH FLO	RE BOULEVARD	SCHLIE, PAUL W		
LOS ANGELES, CA 90025-1030			ART UNIT	PAPER NUMBER
·			2186	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	12/19/2006	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)	
	10/750,602	LEE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Paul W. Schlie	2186	
The MAILING DATE of this communication ap	ppears on the cover sheet with t	he correspondence a	address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statuly Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA .136(a). In no event, however, may a reply d will apply and will expire SIX (6) MONTHS te, cause the application to become ABANI	FION. be timely filed from the mailing date of this ONED (35 U.S.C. § 133).	
Status			
1) ⊠ Responsive to communication(s) filed on 29 A 2a) □ This action is FINAL . 2b) ⊠ This 3) □ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters	•	he merits is
Disposition of Claims			
4) Claim(s) 1-3,5-12,14,15 and 17-22 is/are pen 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-3,5,6,11,12,14,15,21 and 22 is/are 7) Claim(s) 7-10 and 17-20 is/are objected to. 8) Claim(s) are subject to restriction and/o	awn from consideration. e rejected. or election requirement. er. are: a)⊠ accepted or b)□ ob	•	miner.
Replacement drawing sheet(s) including the correct		•	• •
11) The oath or declaration is objected to by the E Priority under 35 U.S.C. § 119	examiner. Note the attached Of	fice Action or form F	PTO-152.
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. Its have been received in Appli prity documents have been rec au (PCT Rule 17.2(a)).	cation No eived in this Nationa	al Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Sumr Paper No(s)/Ma 5) Notice of Inform 6) Other:	il Date	

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DETAILED ACTION

1. Claims 1-22 have been examined as amended 8/29/06.

Response to Arguments

Applicant's arguments filed 8/29/06 with respect to claims 1-3, 5-6, 11-12, 14-15 2. and 21-22 have been fully considered but are not persuasive; as the applicant clearly acknowledges the claimed invention for N=2 within figures 1-2 of the drawings as prior art, and which is considered obvious to analogously extend for an arbitrary value of N by one of ordinary skill in the art; just as depicted within figure 9 for N=4 (being an embodiment of the claimed invention) and clearly showing the previously sequentially latched D0-D2 (i.e. rising_d0, falling_d1, rising_d2) signal states being simultaneously aligned with the last sequentially latched D3 signal state, thereby yielding N-bit parallelized data having a period of N/2 CLK periods for an arbitrary value of N; as previously acknowledged as prior art for N=2; further with respect to figures 3-4, although also acknowledged as prior art, they more accurately depict the use of cascaded N=2 de-multiplexers, as opposed to the true analogous extension of figures 1-2 having N=2 to that of N=4 (with both having N= the number of corresponding align control signals, as also taught within 5,920,511 as previously cited as a reference); and correspondingly considered obvious to utilized in combination with that acknowledged as prior art embodied within figures 1-2 as reviewed above.

However, upon further consideration and in view of the applicant's disclosure, amended claims and corresponding arguments; claims 7-10 and 17-20 are considered allowable over the art of record if presented in proper form.

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Allowable Subject Matter

3. Claims 7-10 and 17-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in proper form including all of the limitations of the base claim and any intervening claims within an independent claim.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-3, 5-6, 11-12, 14-15 and 21-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al. (US App. 10/750,602).

As per claims 1-3, 5-6, 11-12, 14-15 and 21-22; as the disclosure is considered to clearly acknowledge multi-phase synchronous time-division data de-multiplexing as "prior art" in figures 1-2 and 3-4 as may obviously be analogously applied to wider serialized data utilizing conventional logic elements as correspondingly well known by those of ordinary skill in the art; such a circuits are considered obvious to one of ordinary skill in the art at the time of the claimed invention (and although not cited formally as the basis of the rejection, also effectively taught by the previously cited reference Lee et al. US Patent 5,920,511); thereby all claims are considered obvious to one ordinary skill in the art as a consequence of the analogous application of that acknowledged as prior art to wider datum, for the benefit of enabling synchronous multiphase de-multiplexing of N-bit wide serialized data as may be desired utilizing

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correspondingly well understood logical components for their intended purpose; although presented in different form from that acknowledged as prior art.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul W. Schlie whose telephone number is 571-272-6765. The examiner can normally be reached on Mon-Thu 8:00-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Kim can be reached on 517-272-4182. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PIERRE BATALLES

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